

Data Handling Worksheet

Name:

Class:

Date:

Score:

Mean, Range, and Data Interpretation

1. The marks obtained by 10 students in a quiz are: 7, 9, 5, 8, 6, 9, 4, 10, 6, 8.

Answer the following questions based on this data:

(a) What is the highest mark obtained?

(b) What is the lowest mark?

(c) What is the range of the marks?

(d) Find the arithmetic mean of the marks.

(e) How many students scored above the mean?

2. You collected the number of steps you walked each day for a week: 4000, 3500, 5000, 4500, 4200, 4700, 3900. Based on this, answer:

(a) What is the total number of steps you walked in the week?

(b) Find the average number of steps per day.

(c) What is the range of your steps in a day?

(d) On how many days did you walk more than the average number of steps?

(e) Which day had the highest number of steps?

3. The prices (in rupees) of 5 different pens are: 10, 15, 12, 18, and 20.

Calculate:

(a) The total cost of all pens.

(b) The average price of a pen.

(c) The difference between the costliest and the cheapest pen.

(d) How much more is the costliest pen than the average?

(e) If a sixth pen is added costing ₹25, what is the new average price?

4. You recorded the number of hours you studied each day for 6 days: 2, 3, 1.5, 2.5, 2, 3.5. Answer the following:

(a) What is the total number of hours studied?

(b) What is the average number of hours studied per day?

(c) What is the range of study hours?

(d) How many days did you study more than 2 hours?

(e) How many days did you study less than the average?

5. In a survey, these are the number of books read by 10 students in a month:

1, 3, 2, 4, 3, 2, 3, 1, 5, 2. Solve the following:

(a) Find the average number of books read per student.

(b) What is the range of the data?

(c) How many students read more than the average number of books?

(d) How many students read fewer than 3 books?

6. A gardener measured the heights of 6 sunflower plants as follows (in cm):

120, 135, 140, 125, 130, 145. Find:

(a) The tallest and shortest plant.

(b) The range of the heights.

(c) The mean height of the plants.

(d) How many plants are taller than the mean height?

(e) If one more plant of 150 cm is added, what is the new mean height?

7. You are planning a class picnic and recorded the amount of money each student contributed: ₹100, ₹120, ₹90, ₹110, ₹130, ₹100, ₹110, ₹90.

(a) Find the total amount collected.

(b) What is the average contribution per student?

(c) What is the range of the contributions?

(d) How many students contributed more than the average?

8. Ravi collected rainfall data (in mm) for 5 days: 10, 0, 25, 15, and 5. Help him answer:

(a) What was the total rainfall in these 5 days?

(b) What is the average rainfall?

(c) What is the range of the rainfall?

(d) On how many days was the rainfall above the average?

(e) Was there any day with no rainfall?

9. In a game, Meena scored 45, 50, 60, and 55 points in four rounds. What was her average score?
10. Anjali baked 12, 14, 13, 15, 16 cupcakes on five different days. What is the mean number of cupcakes she baked?

